

syllabus

- To prepare liquid soap
- To prepare white and black phenyl
- To prepare dish washing powder
- To prepare detergent powder and cake
- To prepare bath soap by semi hot process
- To determine the total alkali present in synthesize detergent and its comparison with commercial detergent
- To detect the presence of adulteration and hazards in sample of chilli powder, turmeric powder, sugar, fat, ice cream and butter etc.



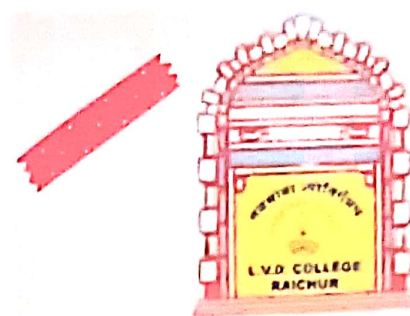
To join contact:

- Miss. Jasmeen
(Department of chemistry)
- Miss. G.Neha
(Department of chemistry)

Head, Department of Chemistry
L.V.D. College, RAICHUR.

outcomes

An undergraduate degree in chemistry/Industrial chemistry/Biology opens a whole host of opportunities in fields. A background in this course provides good training for student interested in careers in small scale manufacturing some domestic products. This course is very helpful to students in feature. After this course, the students are able to synthesize various domestic items which is very useful in daily lives of human and also provides critical thinking skills and confident important for his own small scale manufacturing unit. This course is much more interesting for both study and as well as practice. The course is very beneficiary for student to determine adulteration in food materials and methods to test because it affects all of us. From this course, student can learn how water hardness affects cleaning action of soap and detergents. Also the adverse effects of some ingredients in cosmetics/ice cream etc. The small scale manufacturing unit can be establishing to sell their products to customers. Student can also learned how to calculate costing and sale price of synthesized material.



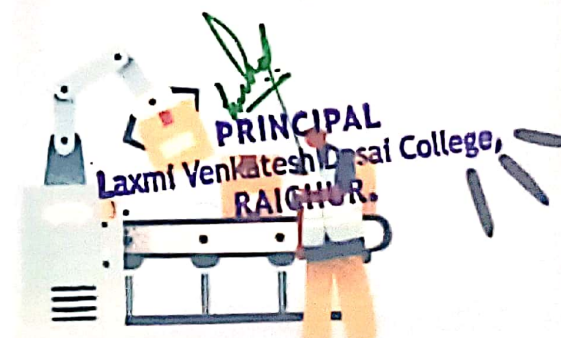
Taranath Shikshana Samsthe
Laxmi Venkatesh Desai College
Raichur

Re-Accredited by NACC with 'B' grade

Department of Chemistry
2021-22

Offers course on

"Chemistry In Daily Life"



1



Taranath Shikshana Samsthe



LAXMI VENKATESH DESAI COLLEGE, RAICHUR-584103.
(Affiliated to Raichur University, Raichuri. Re-Accredited by NAAC with "B" Grade)

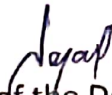
Dr.Venkatesh B. Devaru, M.Sc.,Ph.D.,MBA.
PRINCIPAL

Office of the Principal
Ph:(08532)-240286, 240707
Fax:+918532 240707
e-mail: lvdrccr@gmail.com
Website: www.lvdcollege.com

Date: 20-10-2022

TO WHOMEVER IT MAY CONCERN

This is to certify that, the college has introduced the Add_On course on, "Chemistry in Daily life" with the duration of 30 hours introduced in 2021-22. The said programme is apart from the existing course curriculum.


Head of the Department
Head, Dept. of Chemistry
L.V.D. College, RAICHUR.


Principal
PRINCIPAL
Laxmi Venkatesh Desai College,
RAICHUR.



(2)

Date: 01-10-2022

To
The Principal,
LVD College, Raichur.

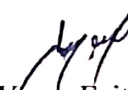
From
HoD,
Chemistry Department.

Respected Sir,

Sub: Permission to start an Add _On course

With respect to the above cited subject I, the undersigned request you to grant permission to start an Add-on course titled "**Chemistry in Daily life**" to undergraduate students. The details of syllabus and duration are enclosed. This course helps students to build up their skills. Kindly grant the permission.

Thanking You,


Yours Faithfully,
Head, Dept. of Chemistry
L.V.D. College, RAICHUR.



Laxmi Venkatesh Desai College, Raichur

Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade

Department of Chemistry

Notice

All the **B.A. I, III & V Semester** students are here by informed to join and get benefit of the Add-on course titled "**Chemistry in Daily life**" starting from

20th October, 2022 at 8 to 9 am

This course enables you to create awareness about the Industrial materials and their uses in daily life, hence it is most useful to the students in future

Neha
B.A V Sem

S
B.A III Year -
~~*R*~~
B.A Ist Sem

Jasmeet
BA I, III Sem

[Signature]
Signature of HOD

Head, Dept. of Chemistry
L.V.D. College, RAICHUR.

Taranath Shikshana Samsthe**L V D College, Raichur****Department of Chemistry****Add-on Certificate Courses****Course Title : CHEMISTRY IN DAILY LIFE**

Coordinator : Miss .Jasmeen and Miss G.Neha

Duration : 30 Hours

(Theory & Practical) Content :

Practical part-A

- 1) To prepare liquid soap (2) To prepare white and black phenyl (3) To prepare dish washing powder (4) To prepare detergent powder and cake (5) To prepare bath soap by semi hot process (6) To prepare cold cream (7) To prepare potash Alum (8) To prepare various ink and saving cream (9) To prepare Hand sanitizer hydro alcoholic Gel formulation (10) To determine the total alkali present in synthesized detergent and its comparison with commercial detergent (11) Qualitative tests for oils and fats. (12) To detect the presence of adulteration and hazards in sample of chilli powder, turmeric powder, sugar, fat, ice cream and butter etc.

Theory part-B

- 1) Principle of action of detergent.
- 2) Chemistry and food adulteration.
- 3) Food and adulteration and hazards with spot tests.

Outcomes of the course : An undergraduate degree in chemistry/Industrial chemistry/Biology opens a whole host of opportunities in fields. A background in this course provides good training for student interested in careers in small scale manufacturing some domestic products. This course is very helpful to students in feature. After this course, the students are able to synthesize various domestic items which is very useful in daily lives of human and also provides critical thinking skills and confident important for his own small scale manufacturing unit. This course is much more interesting for both study and as well as practice. The course is very beneficiary for student to determine adulteration in food materials and methods to test because it affects all of us. From this course, student can learn how water hardness affects cleaning action of soap and detergents. Also the adverse effects of some ingredients in cosmetics/ice cream etc. The small scale manufacturing unit can be establishing to sell their products to customers. Student can also learned how to calculate costing and sale price of synthesized material

Reference

- 1) Chemical Technology by C.C. Maheta, Rashikbhai Suthar, J.B. Patel and C.T. Brahmbhat. B. S. Shah Publication, Ahmedabad.
- 2) Practical Chemistry by N. K. Verma, B.K. Vermani and K.K. Rehani. Laxmi Publication (p) Ltd, New Delhi.
- 3) Synthetic organic chemistry by Gurdeep R. Chatwal. Himalaya Publishing House.
- 4) Adulteration and its side effect in food by Dr. Bhavna Chauhan, Yogesh Vadvala et al. Food and nutrition and chemistry department of S.M ., Patel college of home science.

Taranath Shikshana Samsthe
LAXMI VENKATESH DESAI COLLEGE, RAICHUR.

Semester Time Table for the year 20 -

Name of the Staff G. Neha & Jasmeen

Class: B.A I, III & V

Subject: Chemistry

Days	8-9 AM	10.20	11.10	12.00	12.50	1.40	2.30	3.20	4.10
Monday	← Chemistry Addon Course →								
Tuesday	- do -								
Wednesday	- do -								
Thursday	- do -								
Friday	- do -								
Saturday	- do -								

Signature of the Staff

Neha Jasmeen

HOD Signature

[Signature]
Head, Dept. of Chemistry
L.V.D. College, RAICHUR.

PRINCIPAL

PRINCIPAL

Laxmi Venkatesh Desai College,
RAICHUR.

(b)

Laxmi Venkatesh Desai College, Raichur

Affiliated to Gulbarga University, Kalaburgi & Re-Accredited by NAAC with B Grade

Attendance Sheet

		Department of Chemistry																																
Class: B.A. I, III, & V Semester		Course title: <u>Chemistry in Daily life</u>														Faculty Name: <u>Dr. Neha & Jameen</u>														Total	Student			
Sl.No	Register No	Name of the Student	20	21	22	27	28	29	1	2	3	4	5	7	8	9	10	11	12	14	15	16	17	18	19	21	22	23	24	25	26	28	Total	Student Signal - ure.
			10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28				
1.	A2024600	Tofiq	P	P	P	P	P	P	A	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	26	Tofiq		
2.	A2024606	Vinay Kumar	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	A	P	P	P	A	P	P	A	P	P	P	P	P	25	Vinay		
3.	A2024612	Neelamma	P	P	A	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	A	A	24	Neelamma		
4.	A2024615	Hanumanti	P	P	P	A	P	P	P	P	P	A	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	A	P	P	25	Hanumanti		
5.	A2024622	Devappa	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	A	P	P	26	Devappa		
6.	A2024626	Asha Bee	P	P	P	A	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	A	P	P	25	Asha Bee		
7.	A2024629	S.B.Laxmi	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	A	P	26	S.B.Laxmi		
8.	A2024642	Srinivas	P	P	P	P	P	P	P	P	P	A	P	A	P	A	P	P	P	A	P	P	P	A	P	P	P	P	P	A	25	Srinivas		
9.	A2024643	Govindaraj	P	A	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	26	Govindaraj		
10.	A2024647	Shilpa	A	P	P	P	A	P	P	P	A	P	P	P	A	P	P	P	A	P	P	P	A	P	P	P	P	A	P	A	23	Shilpa		
11.	A2024652	S.Sharanabasava	P	A	P	P	P	A	P	P	P	P	P	A	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	26	S.Sharanabasava		
12.	A2024654	Ravikumar	A	A	P	P	A	P	P	P	A	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	A	P	P	P	23	Ravikumar		
13.	A2024655	Ramesh	P	A	P	P	A	P	P	P	A	P	P	P	P	A	P	P	P	A	P	A	P	P	P	P	A	P	P	P	23	Ramesh		
14.	A2024656	Shivaprasad	P	P	P	P	P	P	P	P	A	P	P	P	A	P	P	P	A	P	P	A	P	P	P	P	P	A	P	P	25	Shivaprasad		

Neha Jameen
Signature of Faculty

[Signature]
Signature of HOD,
Head, Dept. of Chemistry
L.V.D. College, RAICHUR.

[Signature]
Signature of Principal
PRINCIPAL
Laxmi Venkatesh Desai College,
RAICHUR.

Laxmi Venkatesh Desai College, Raichur

Affiliated to Gulbarga University, Kalaburgi & Re-Accredited by NAAC with B Grade

Attendance Sheet

		Department of Chemistry																																
Class: B.A. I, III, & V Semester		Course title: Chemistry in Daily life														Faculty Name: G. Neha & Jasmmeen														Total present	Student Signature			
Sl.No	Register No	Name of the Student	20	21	22	27	28	29	1	2	3	4	5	7	8	9	10	11	12	14	15	16	17	18	19	21	22	23	24	25	26	28	Total present	Student Signature
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			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
15	A2024675	Udaya Kumar	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	A	P	P	P	26	Udaya Kumar	
16	A2024679	Shwetha	P	P	A	P	A	P	P	A	P	P	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	A	P	P	24	Shwetha	
17	A2024682	Pavankumar	P	A	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	25	Pavan Kumar		
18	A2024686	Umesha.T	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	A	P	A	P	A	P	P	P	P	P	P	25	Umesha.T		
19	A2024688	Devasraj	P	P	P	A	P	P	A	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	A	A	A	A	A	A	19	Devasraj		
20	U23AB21006	Saddam Hussein	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	25	Saddam Hussein		
21	0007	Swati	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	A	P	A	P	P	P	P	P	A	P	P	P	25	Swati		
22	0013	K.Sangeetha	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	28	K. Sangeetha		
23	0022	Anitha	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	29	Anitha		
24	0025	Umme Salma	P	P	P	A	P	P	P	P	P	A	P	P	P	A	P	P	A	P	P	P	A	P	P	P	A	P	A	P	23	Umme Salma		
25	0028	Julekha begum	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P	A	P	P	P	P	A	P	P	P	P	26	Julekha begum		
26	0033	Pranesh	P	P	P	P	A	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	A	P	A	P	P	24	Pranesh		
27	U23AB21006	Eresha	P	P	P	P	P	P	A	P	A	P	P	P	A	P	P	A	P	A	P	P	P	A	P	A	P	A	P	P	22	Eresha		
28	A2024671	Usha	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	A	P	P	A	P	25	Usha		

Neha Jasmmeen
Signature of Faculty

Jasmmeen
Signature of HOD
Head, Dept. of Chemistry
L.V.D. College, RAICHUR.

Neha
Signature of Principal
PRINCIPAL
Laxmi Venkatesh Desai College,
RAICHUR.

(=)

Attendance Sheet

		Department of Chemistry																																	
Class: B.A. I,III,& V Semester		Course title: Chemistry in Daily life																												Faculty Name: A.Neha & Jameen,					
Sl.No	Register No	Name of the Student	20	21	22	27	28	29	1	2	3	4	5	7	8	9	10	11	12	14	15	16	17	18	19	21	22	23	24	25	26	28	Total present	Student Signature	
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			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
29	0040	Eresha	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	29	Eresha		
30	0051	Ramesh	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	28	Ramesh		
31	0056	Rahul	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	28	Rahul		
32	0057	M.Priya	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	27	M. Priya		
33	0058	Anusha	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	28	Anusha		
34	0060	Anu	P	P	P	A	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	27	Anu		
35	0061	Gi. Vikram	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	29	Gi. Vikram		
36	0063	Mariswami	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	27	Mariswami		
37	A2135651	Eresha	P	P	P	P	P	P	P	P	P	P	A	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	27	Eresha		
38	A2135654	Babulal	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	27	Babulal		
39	A2135661	Govind	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	26	Govind		
40	A2135662	Dopanna	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	29	Dopanna		
41	A2135665	Sahana	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	29	Sahana		
42	A2135669	Trupti	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	27	Trupti		

Neha Jameen
Signature of Faculty

[Signature]
Signature of HOD
Head, Dept. of Chemistry
L.V.D. College, RAICHUR.

[Signature]
Signature of Principal
PRINCIPAL
Laxmi Venkatesh Desai College,
RAICHUR.

20

Laxmi Venkatesh Desai College, Raichur

Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade

Department of Chemistry

Report of Add on course

Title of the Add on course : Chemistry in Daily life

Duration : 30 Hours

Started on : 20-10-2022

Completed on : 28-11-22

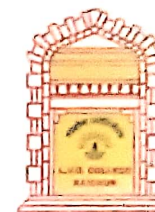
Name of the faculty : Miss. Jasmeen and Miss. G.Neha

Total No. of students admitted : 42 students

Total No. of classes taken : 30 Classes.

Total No. of students benefited : 42 students

Learning outcomes : Students will be aware of the industrial materials and their uses in daily life.




Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE RAICHUR

(Re-Accredited by NAAC with 'B' Grade)

Certificate

This is to Certify that Miss. / Mr. Ramesh
 of B.A I Semester has completed the Certificate Course in
Chemistry in Daily life
 Conducted by the Department of Chemistry from
20-10-2022 to 28-11-2022


 Head of the Department
 Head, Dept. of Chemistry
 L.V.D. College, RAICHUR




 PRINCIPAL
 L.V.D. College, RAICHUR-57
 Principal



Taranath Shikshana Samsthe's
LAXMI VENKATESH DESAI COLLEGE, RAICHUR
ADD ON COURSE, INTERNAL ASSESSMENT
TOPIC – CHEMISTRY IN DAILY LIFE
B.A I, III & V SEMESTER - 2022

Time : 8:00 am to 9:00 am.

Date : 25/11/2022

Max. Marks : 20M

Answer any 10 of the following questions :

[10 x 2 = 20M]

1. Write the spot test for the detection of adulterant in chilli powder and turmeric powder.
2. Write the spot test for the detection of adulterant in ice cream and butter.
3. What are medicated soaps ?
4. How does toilet soap differ from washing soap?
5. What are the main ingredients required to prepare potash alum?
6. What are ABS & LAS detergents?
7. What are the main ingredients in a toothpaste?
8. What are the main constituents of face cream?
9. What are the main constituents of saving cream?
10. What is a surfactant ?
11. Mention the main ingredients required to prepare hand sanitizer.
12. What is the main difference between synthetic detergent and commercial detergent?



INTERNAL ASSESSMENT

16

DATE OF
SECOND INTERNAL TEST :DATE OF
FIRST INTERNAL TEST : 25-11-2022Name of the Student Ramesh

Father's Name _____

Register Number : U83AB21A0004Semester : BA I SemCourse : chemistry in daily lifeSubject : chemistry

Marks Obtained

Ramesh
Sign. of the Student

Sign. of the Room Invigilator

Sign. of the Examiner

Q6 Ans. ABS & LAS detergents:-

polypropylene was commonly used in the synthesis of alkyl benzene Sulphonate (ABS) detergents & these detergents are called hard detergents & are non-biodegradable detergents because it contains highly branched chain of carbon.

The side chain of linear alkyl benzene Sulphonate (LAS) detergents are derived from straight chain of monoalkanes and are known as soft detergents & these are eco-friendly and undergo degradation. These are biodegradable.

Q7 Ans. Main ingredients of a toothpaste are as follows.

- 1) precipitated calcium carbonate as Abrasive
- 2) Castile Soap or Sodium dodecyl Sulphate (Detergent)
- 3) Glycerol (glycerin) — Sweetner.
- 4) Gum tragacanth (or) gum cellulose as base.
- 5) oil of peppermint (or) peppermint Extract) — as a flavouring agent.
- 6) & Artificial Colorants
- 7) water.

Q8 Ans. lightening Night Cream (face cream) formulation as follows.

- 1) Deionized water
- 2) Glycerin
- 3) Glyceryl Caprylate.

4 Xanthan Gum

5 Hydrogenated Lauric (L) (12-16 Alcohol & palmitic

6) Lauric of seed oil & vitamins.

1 Ans a) Chilli powder:-

Any grittiness that may be left or trapping the sediment at the bottom of glass test tube confirms the presence of brick powder or sand as an adulterant in chilli powder.

b) Turmeric Powder:-

Take a teaspoon full of turmeric powder in a test tube. Add few drops of conc. HCl. If there is instant appearance of violet colour which disappears on dilution with water. If the colour persists, presence of Metanil yellow as adulterant in turmeric powder.

3 Ans Medicated Soaps:-

Toilet Soaps containing bactericidal ingredients (usually like Carbolic acid & its derivatives) are known as medicated soaps. They are used to kill Micro-organisms which are exposed parts of body (or) on wounds, for eg: soaps such as Dettol, Savlon, Neem, Margo, etc.

2 Ans Butter.

Take about one teaspoonful of melted butter with equal of conc. HCl in a test tube & add a pinch of cane sugar & shake well & test it after 5 mins. If the appearance of crimson colour in lower layer shows the presence of vanaspoti as an adulterant in butter soap.

Ice-Cream:-

Take about a pinch of ice-cream in a test tube add few drops of acetic acid

Ans The main ingredients of Saving Cream are as follows:-

1) Stearic acid

2) triethanolamine

- 3) glycerin (or) Glycerol
- 4) polyoxyethylene sorbitan mono stearate &
- 5) water

Toilet Soap	Washing Soap
1) These are the soft soaps	1) These are the hard soaps
2) The main ingredients of these soap are oil & fats & caustic soda (or) caustic potash best quality oils are used for preparation of toilet soap	2) The main ingredients of the soap are cheap oil (or) fats & caustic soda.
3) They are used on hairs on skin, and as antibacterial soaps	3) They are used for washing of cotton clothes & to wash other clothes.
4) They are not harmful soaps	4) These are harmful soaps

10. An The agent which is added to soap that stabilizes the suspension of non-polar substance such as oil & grease (or) surfactants

11. An The two main ingredients of hand sanitizers are
- 1) Ethanol (or) Isopropanol alcohol - 60-95%
 - 2) Hydrogen peroxide
 - 3) Glycerine
 - 4) Fragrance
 - 5) Colourant

L
ai College,